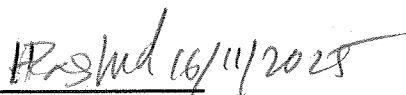


LEVEL ONE TERM TWO

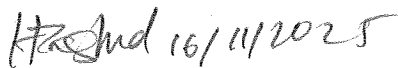
Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
CHEM 133	Physical Chemistry	3.00	
CHEM 135	Inorganic Chemistry	3.00	
CHEM 136	Physical and Inorganic Chemistry Laboratory	1.50	
HUM 102	English Language Practice	1.50	
MATH 175	Partial Differential Equation and Vector Analysis	3.00	
ME 141	Engineering Mechanics	3.00	
PHY 169	Physics - II	3.00	
SHOP 182	Machine Shop, Sheet Metal and Carpentry	1.50	
Total Credits		19.50	



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LEVEL TWO TERM ONE

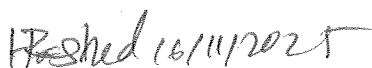
Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
CSE 287	Computer Programming	3.00	
CSE 288	Computer Programming Sessional	1.50	
IPE 204	Engineering Graphics and Introduction to CAD	1.50	
MATH 273	Matrices, Series Solutions and Fourier Analysis	3.00	
MME 202	Professional Development and Communication Skills	1.50	
MME 211	Crystallography and Structure of Materials	3.00	
MME 215	Thermodynamics of Materials	3.00	
PHY 201	Physics - III	3.00	
Total Credits		19.50	



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Head

LEVEL TWO TERM TWO

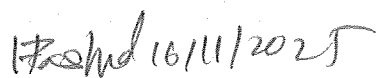
Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MATH 275	Probability and Statistics	3.00	
MME 206	Chemical Metallurgy Laboratory	1.50	
MME 208	Computer Applications to Materials Engineering	1.50	CSE 287, CSE 288
MME 213	Phase Diagrams and Transformations	3.00	
MME 214	Microstudy and Heat Treatment Laboratory	1.50	
MME 217	Kinetics and Transport Phenomena in Materials	3.00	
MME 219	Corrosion and Degradation of Metals and Alloys	3.00	
OPTION 1	General Option 1 (Select One from Sub-module 8.6)	3.00	
	ME 261 Numerical Analysis		
Total Credits		19.50	



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Head

LEVEL THREE TERM TWO

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MME 300	Industrial Training	1.50	
MME 303	Metal Joining and Forming Processes	4.00	MME 313
MME 304	Metal Joining and Forming Processes Laboratory	1.50	
MME 305	Glass and Ceramic Materials	3.00	
MME 307	Polymeric Materials and Composites	3.00	
MME 308	Materials Laboratory I	1.50	
MME 310	Capstone Project	1.50	
MME 315	Characterization of Materials	3.00	MME 211, MME 311
MME 316	Characterization of Materials Laboratory	1.50	
Total Credits		20.50	



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LEVEL FOUR TERM TWO

Course Number	Course Name	Credit Hour	Pre-requisite Course(s)
MME 400	Project and Thesis	3.00	
MME 410	Failure Analysis and Artefact Study	1.50	
MME 411	Materials Selection and Design	3.00	
IPE 493	Industrial Management	3.00	
OPTION 6	MME Option 3 (Select One from Sub-module 8.2)	3.00	
	MME 453 Photonic and Magnetic Materials		
	MME 457 Solar Cell, Fuel Cell, and Batteries		
OPTION 7	General Option 2 (Select One from Sub-module 8.7)	3.00	
	ChE 487 Environmental Science and Engineering		
OPTION 8	Hum Option 3 (Select One from Sub-module 8.5)	3.00	
	Hum 417 Sociology for Science and Technology		
	Hum 421 Professional Ethics		
Total Credits		19.50	

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16/11/2025

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